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PUB-NO: JP406199536A
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TITLE: OPTICAL FIBER DRAWING FURNACE

PUBN-DATE: July 19, 1994

INVENTOR - INFORMATION:

NAME	COUNTRY
KOBAYASHI, KOHEI	
OKUNO, KAORU	

ASSIGNEE - INFORMATION:

NAME **COUNTRY**
SUMITOMO ELECTRIC IND LTD

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ABSTRACT:

PURPOSE: To provide an optical fiber drawing furnace saved in the equipment space, shortened in the exchange working of optical fiber preform and high in the quality of optical fiber.

CONSTITUTION: In the optical fiber drawing furnace 11 having a drawing chamber A provided with a heater 16 in the inside and filled with a continuously feeding gaseous nitrogen, heat-fusing the optical fiber preform inserted from the inlet part 13 of the drawing chamber A and drawing the optical fiber from the outlet part 14, an optical fiber preform housing chamber B communicating with the drawing chamber A is provided detachably, a shutter 17 is provided between the drawing chamber A and the housing chamber B, a gaseous nitrogen supply line 29 to supply gaseous nitrogen is connected to the housing chamber B, densitometers 19, 20 to detect the concentration change of carbon and oxygen are connected to the drawing chamber A and in the housing chamber B, and the heated optical fiber preform 41 is forcedly cooled by the gaseous nitrogen supply system 29.

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